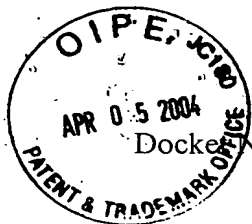


IN THE DRAWINGS

The attached sheets of drawings include changes to Figs. 2A, 2B, 3B, 9, 10, 12, and 14. The first replacement sheet, which includes Figs. 1A, 1B, 2A, and 2B, replaces the original sheet including Figs. 1A, 1B, 2A, and 2B. The second replacement sheet, which includes Figs. 3A and 3B, replaces the original sheet including Figs. 3A and 3B. The third replacement sheet, which includes Figs. 8 and 9, replaces the original sheet including Figs. 8 and 9. The fourth replacement sheet, which includes Figs. 10 and 11, replaces the original sheet including Figs. 10 and 11. The fifth replacement sheet, which includes Figs. 12 and 13, replaces the original sheet including Figs. 12 and 13. The sixth replacement sheet, which includes Figs. 14, 15, and 16, replaces the original sheet including Figs. 14, 15, and 16.

Attachment: 6 Replacement Sheets



Docket No.: 219054US2SRD

#12  
mg  
4/9/04

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION: Masatoshi YOSHIKAWA, et al.

SERIAL NO.: 10/059,153

GAU: 2652

FILED: January 31, 2002

EXAMINER: WATKO, J. A.

FOR: MAGNETORESISTIVE HEAD AND PERPENDICULAR MAGNETIC RECORDING-  
REPRODUCING APPARATUS

LETTER SUBMITTING REPLACEMENT DRAWING SHEET(S)

approved  
04/12/2004  
[Signature]

COMMISSIONER FOR PATENTS  
Alexandria, VA 22313

SIR:

Responsive to the below indicated communication, the following drawing sheets are submitted herewith:

☒ 6 Replacement Drawing Sheets

☐ \_\_\_\_\_ New Drawing Sheets

☒ Official Action dated December 5, 2003

☐ Notice of Allowance/Issue Fee dated \_\_\_\_\_

☐ Other dated \_\_\_\_\_

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Technology Center 2600

The changes and/or modifications made include the following:

Drawings have been corrected as specified in the Office Action dated December 5, 2003.

Respectfully submitted,

Eckhard H. Kuesters

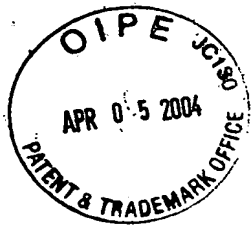
Registration No. 28,870

Customer Number

22850

Tel. (703) 413-3000  
Fax. (703) 413-2220  
(OSMMN 05/2003)

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Inventor: Masatoshi YOSHIKAWA, et al.  
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Replacement Sheets

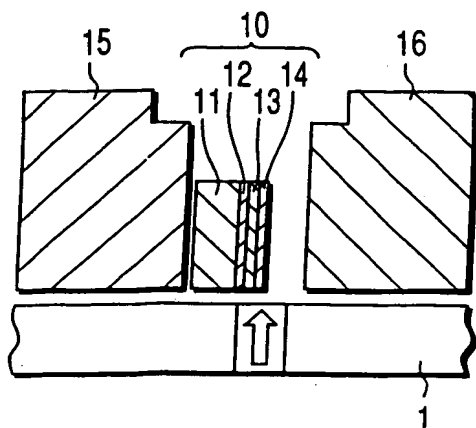


FIG. 1A  
PRIOR ART

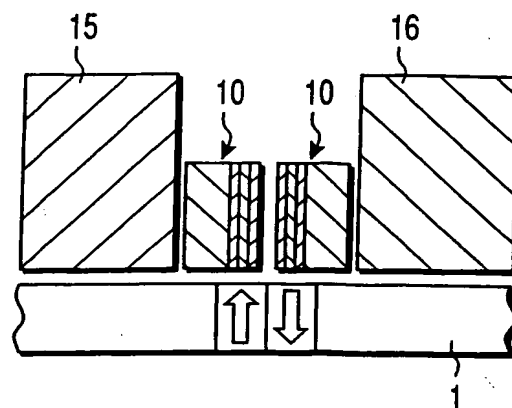


FIG. 1B  
PRIOR ART

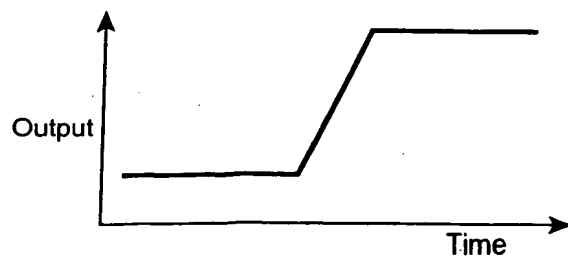


FIG. 2A  
PRIOR ART

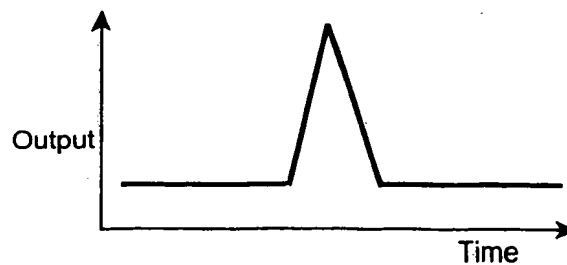


FIG. 2B  
PRIOR ART



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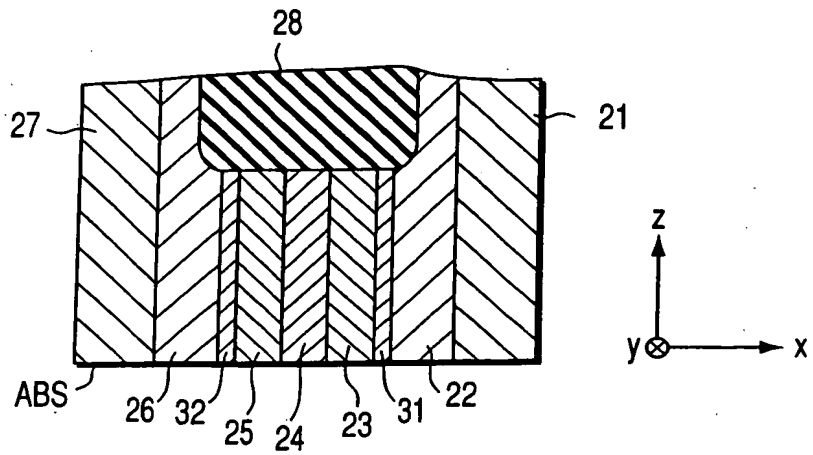


FIG. 3A

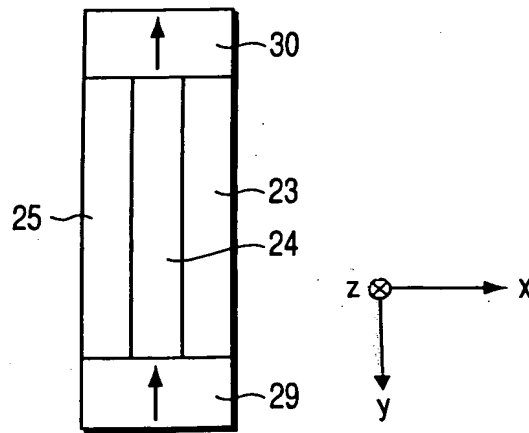
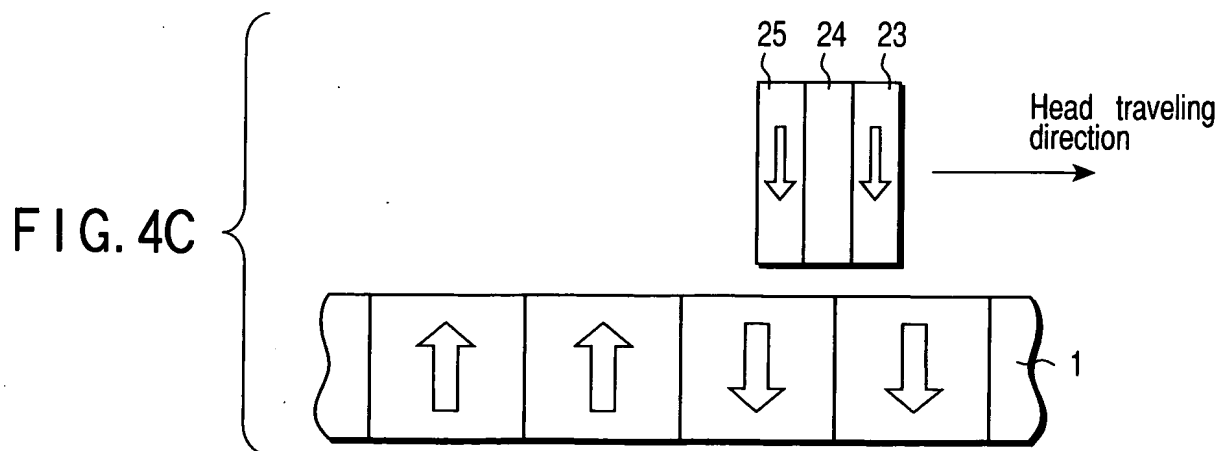
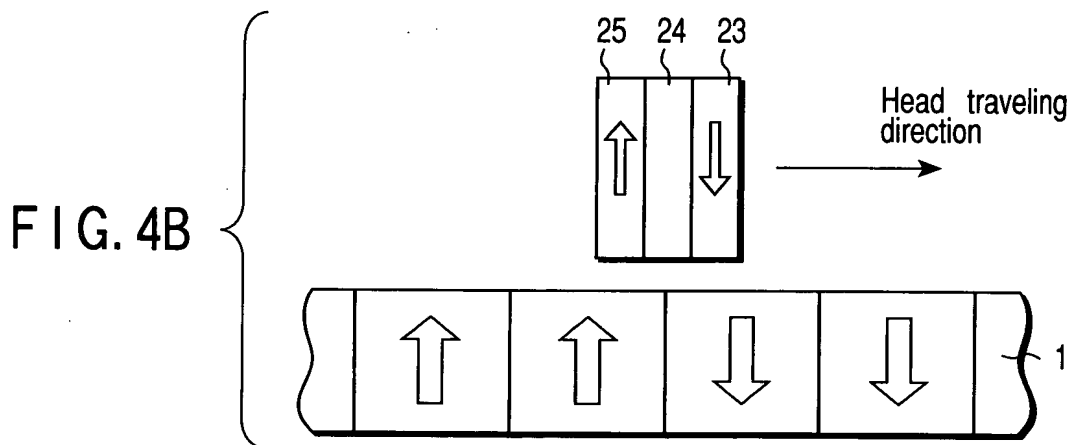
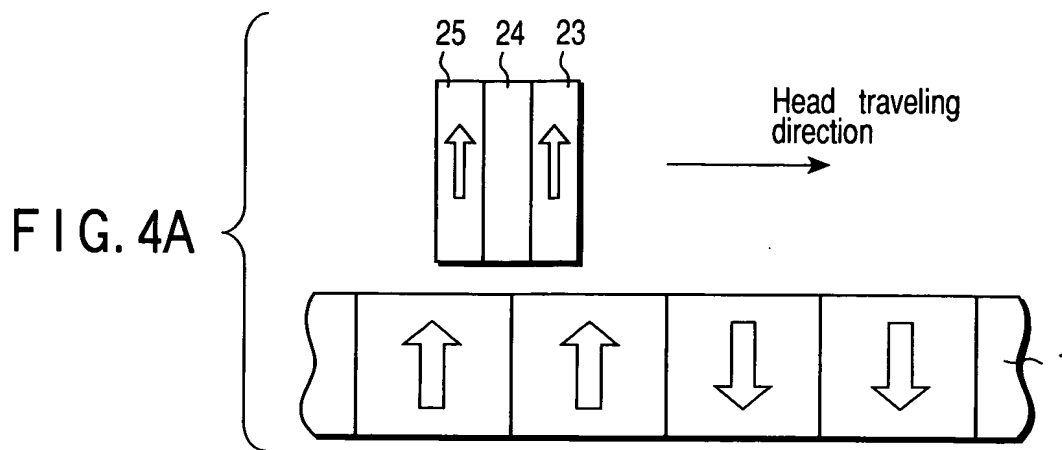


FIG. 3B



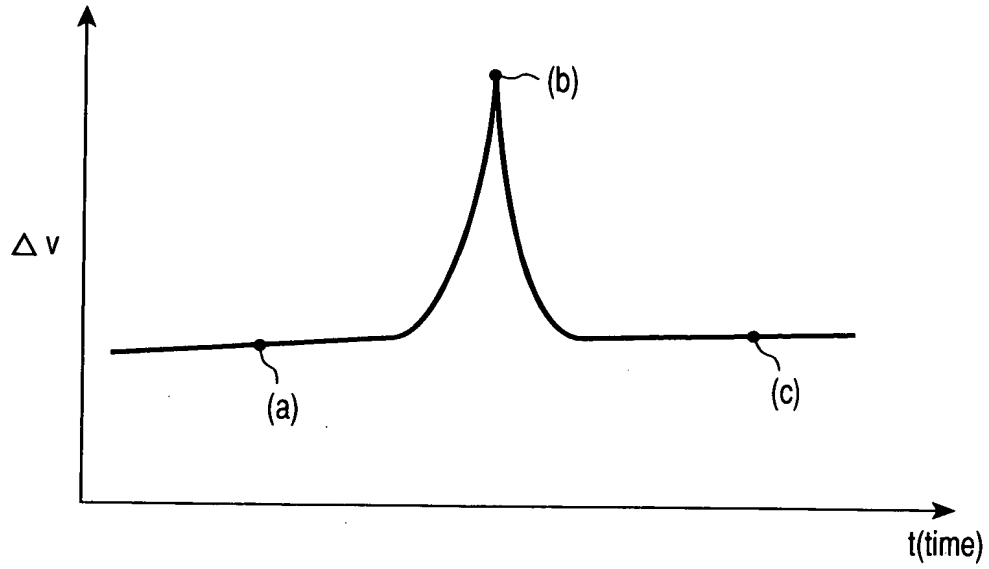


FIG. 5

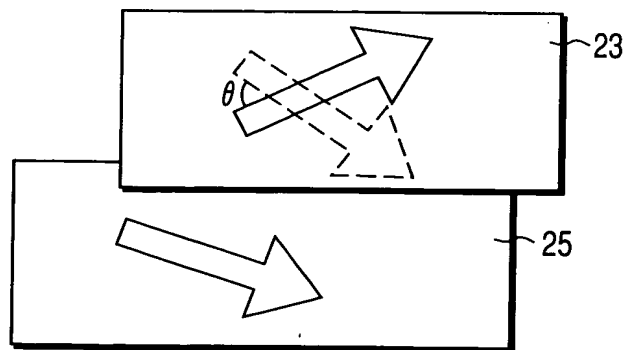


FIG. 6

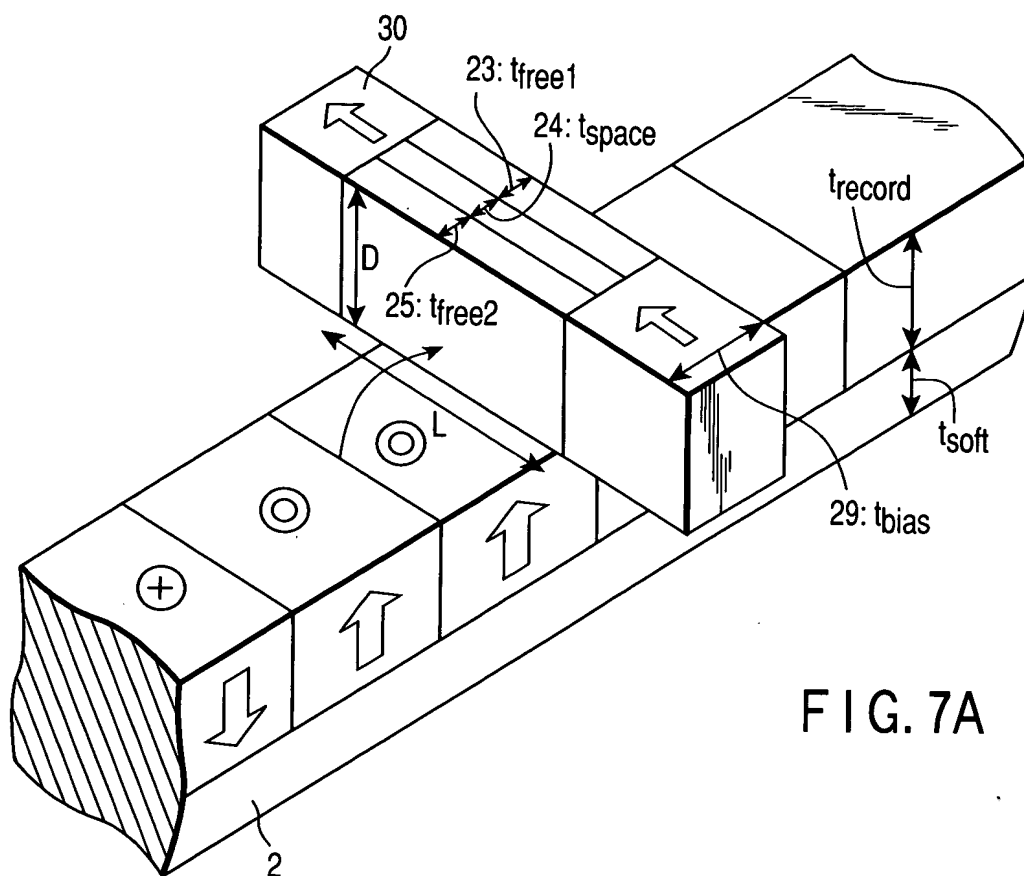


FIG. 7A

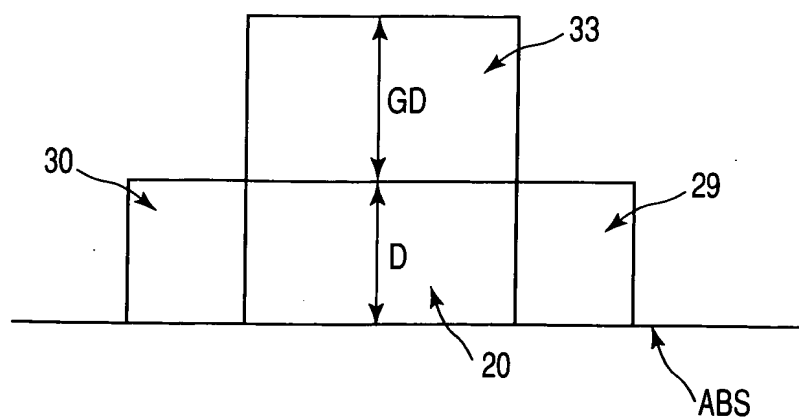


FIG. 7B



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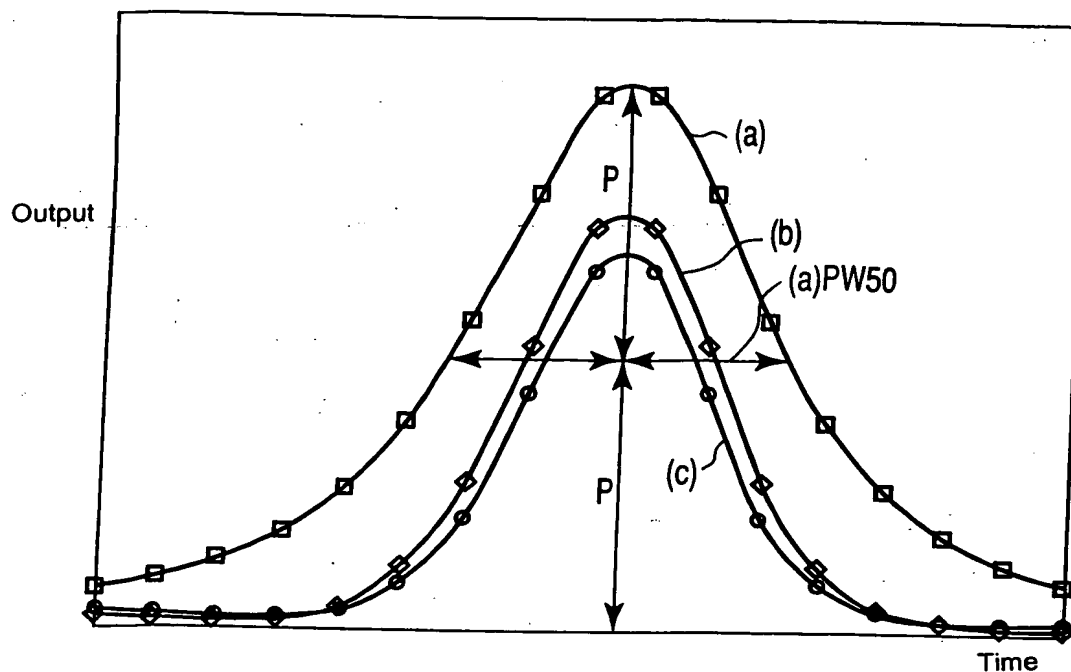


FIG. 8

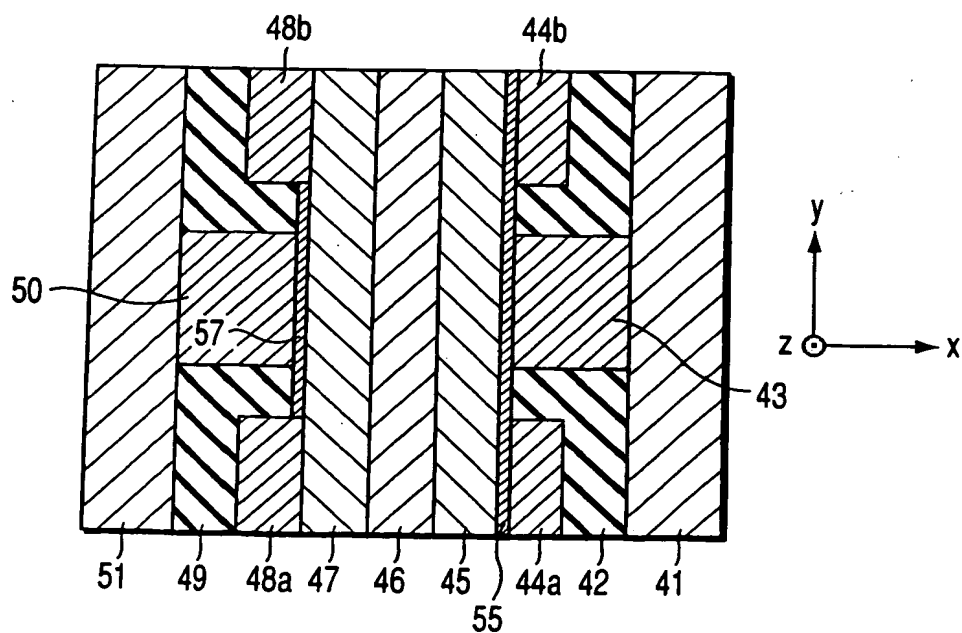


FIG. 9





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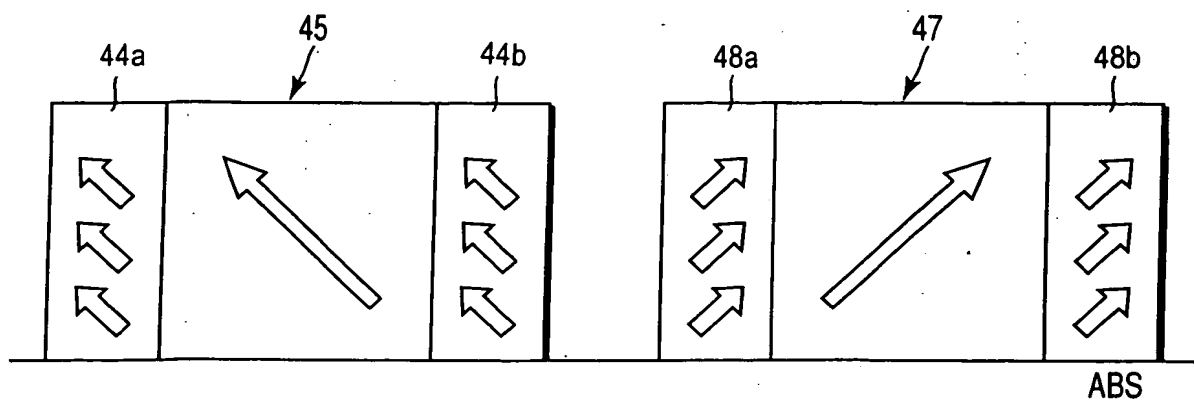


FIG. 10

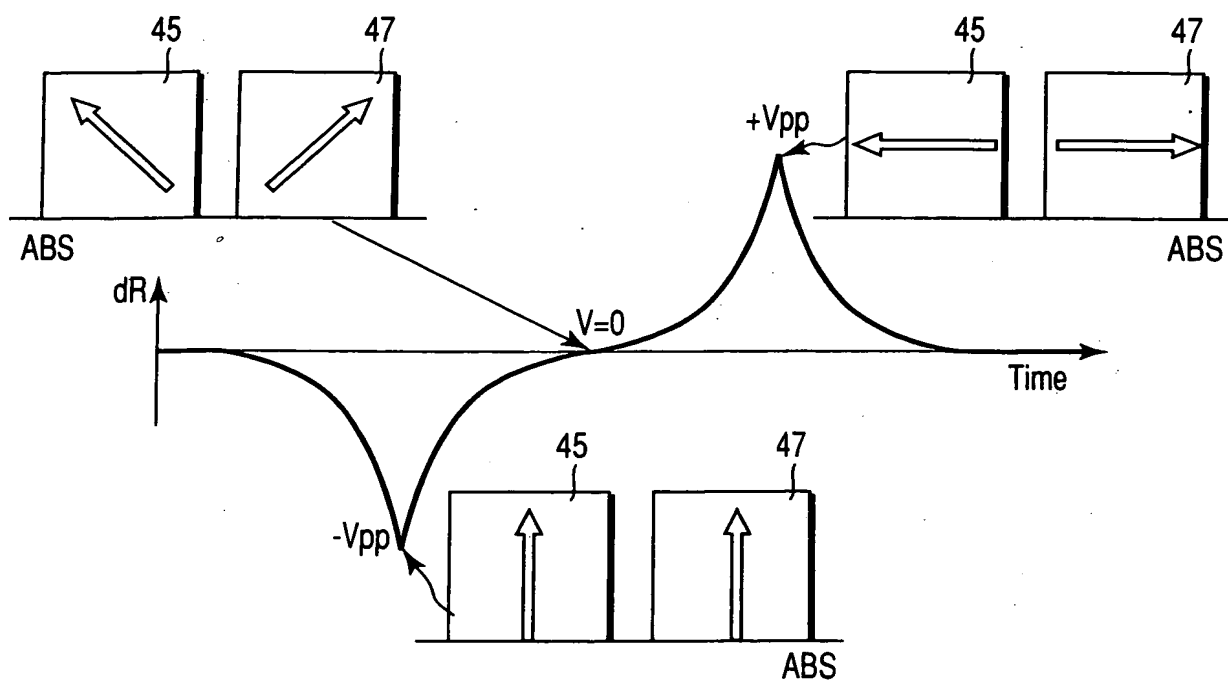
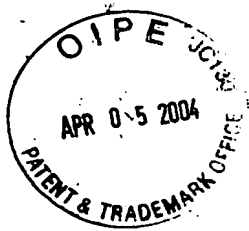


FIG. 11



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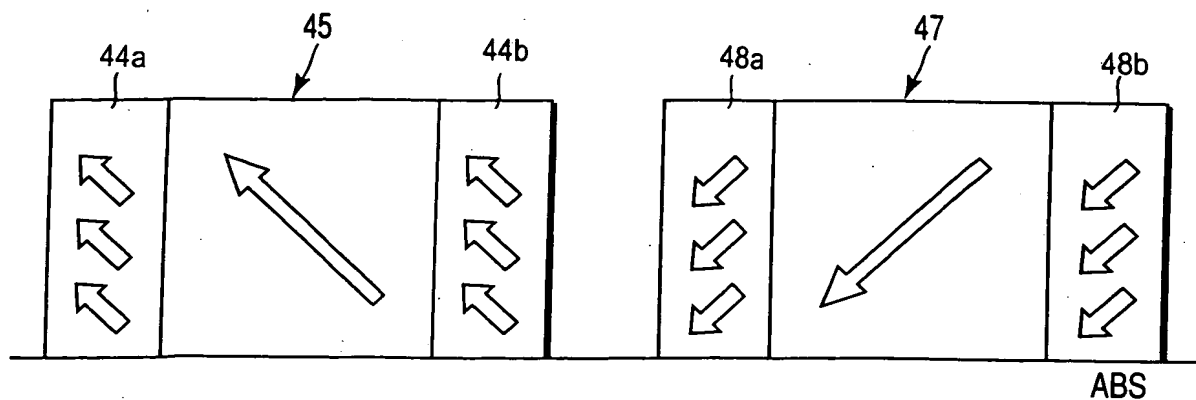


FIG. 12

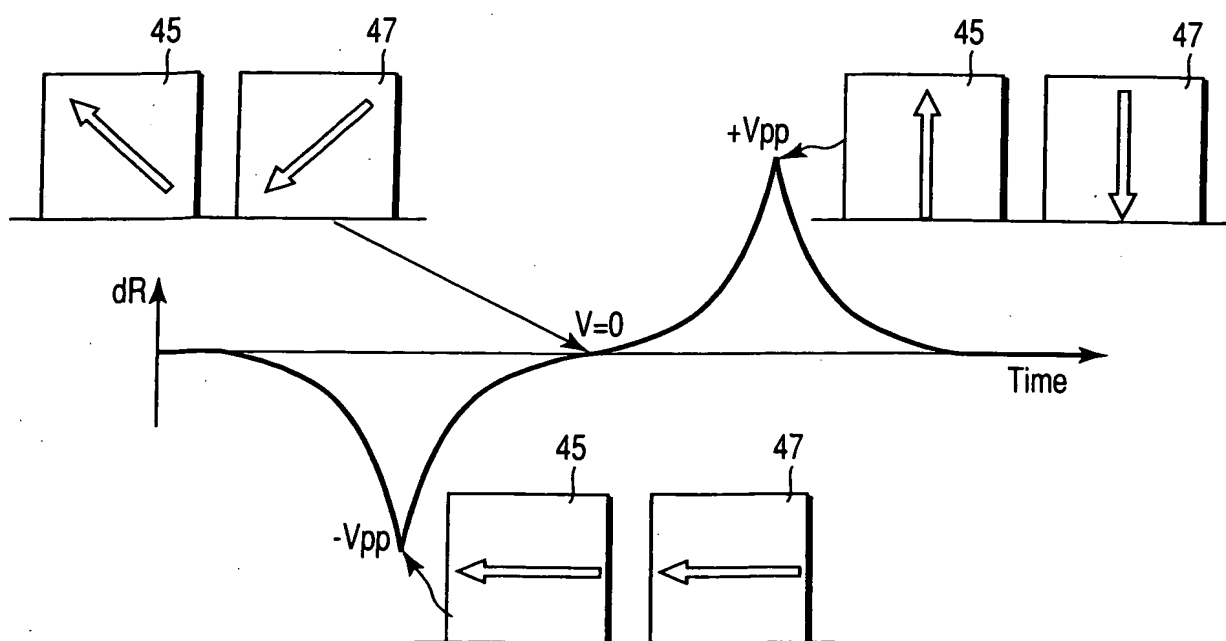


FIG. 13



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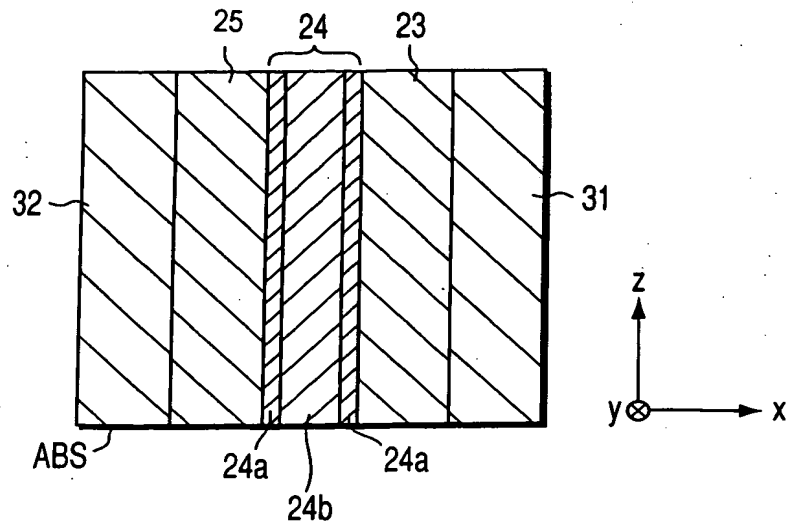


FIG. 14

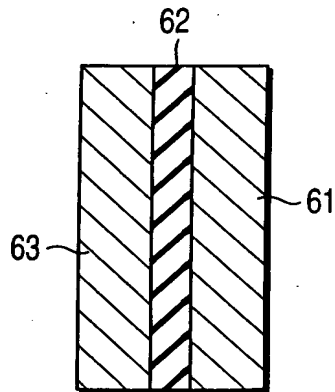


FIG. 15

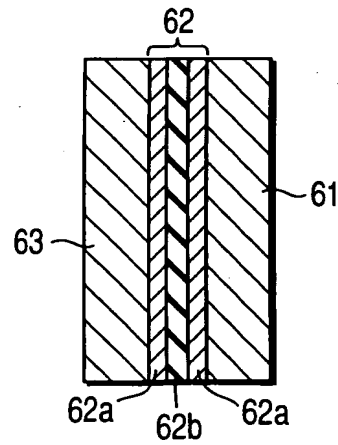


FIG. 16

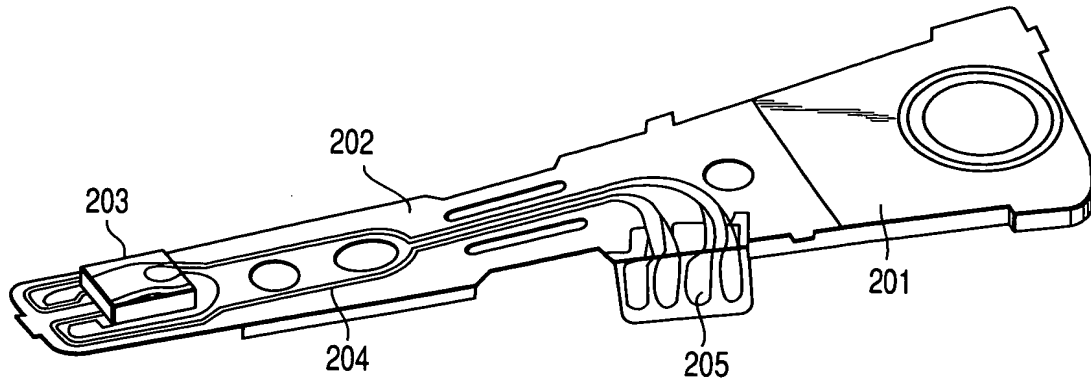


FIG. 17A

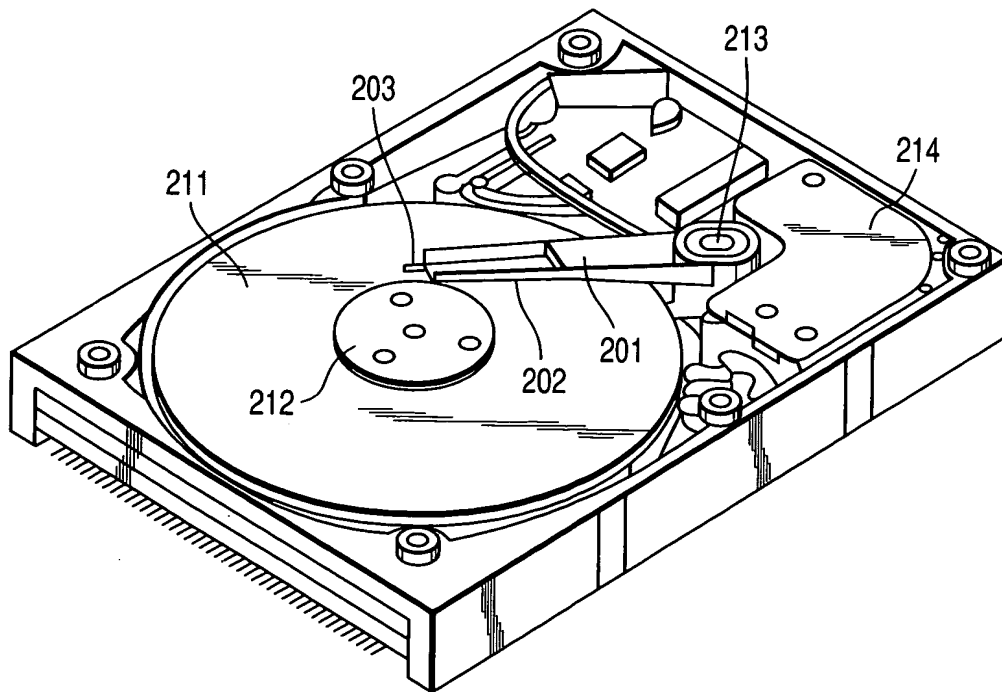


FIG. 17B